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Serial No.: 10/619,989

1 LISTING OF THE CLAIMS 2 **CLAIMS** 3 We claim: 4 1. (Currently amended) An apparatus comprising: 5 a buffer for storing indications of interrupts generated by ports of a peripheral device, the peripheral device having a plurality of ports, said apparatus for transferring interrupts from the 6 7 peripheral device to a host computer system, and 8 a controller for, in response to a preset condition being met, generating a control data block 9 comprising a payload portion having a plurality of fields each corresponding to a port and a header portion having an identifier for identifying the control data block, moving the contents of 10 11 the buffer to the payload portion of the control data block, and sending the control data block to 12 the host computer system via one of the ports. 13 moving the contents of the buffer to the payload portion of the control data block. 14 2. (original) An apparatus as claimed in claim 1, wherein the preset condition comprises a 15 determination that the buffer is full. 16 3. (original) An apparatus as claimed in claim 1, wherein the preset condition comprises a determination that at least a predetermined plurality of indications is stored in the buffer and that 17 18 a predetermined period has elapsed. 19 4. (original) An apparatus as claimed in claim 1, wherein the preset condition comprises a 20 determination that at least one indication is stored in the buffer and that a predetermined period 21 has elapsed.

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5. (Previously presented) An apparatus as claimed in claim 1, wherein the header portion

2 comprises a count indicative of the number of indications included in the payload portion.

3 6. (original) An apparatus as claimed in claim 1, wherein the header portion comprises a time of

4 day stamp.

5 7. (original) An apparatus as claimed in claim 1, wherein the buffer comprises a first in - first

6 out memory buffer.

8. (currently amended) A peripheral device comprising the apparatus as claimed in claim 1.

8 9. (currently amended) A data communications network interface comprising a the peripheral

9 device as claimed in claim 8.

10 10. (Previously presented) An apparatus as claimed in claim 1, further comprising:

11 a host processing system having a memory, a data communications interface for communicating

12 data between the host computer system and a data communications network, forming a data

13 processing system for controlling flow of interrupts from the data communication interface to the

14 memory of the host computer system.

15 11. (original) A method comprising transferring interrupts from a peripheral device to a host

16 computer system, the peripheral device having a plurality of ports, the step of transferring

17 interrupts comprising:

storing interrupts generated by ports of the peripheral device in a buffer;

19 determining if a preset condition is met, and, in response to the preset condition being met;

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1 generating a control data block comprising a payload portion having a plurality of fields each

- 2 corresponding to a different one of the ports and a header portion having an identifier for
- 3 identifying the control data block;
- 4 moving the contents of the buffer to the corresponding fields of the payload portion; and
- 5 sending the control data block to the host computer system via one of the ports.
- 6 12. (original) A method as claimed in claim 11, wherein the step of determining if the preset
- 7 condition is met comprises determining if the buffer is full.
- 8 13. (original) A method as claimed in claim 11, wherein the step of determining if the preset
- 9 condition is met comprises determining if at least a predetermined plurality of indications is
- 10 stored in the buffer and if a predetermined period has elapsed.
- 11 14. (original) A method as claimed in claim 11, wherein the step of determining if the preset
- 12 condition is met comprises determining if at least one indication is stored in the buffer
- and if a predetermined period has elapsed.
- 14 15. (original) A method as claimed in claim 11, wherein the header portion comprises a count
- 15 indicative of the number of indications included in the payload portion.
- 16 (original) A method as claimed in claim 11, wherein the buffer comprises a first in first out
- 17 memory buffer.
- 18 17. (Currently amended) A computer program product comprising a computer usable medium
- 19 having computer readable program code means embodied therein for causing transfer of
- 20 interrupts, the computer readable program code means in said computer program product
- 21 comprising computer readable program code means for causing a computer to effect the
- 22 functions and of all the limitations elements of claim 1.

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1 18. (Currently amended) A computer program product comprising a computer usable medium

- 2 having computer readable program code means embodied therein for causing data processing, the
- 3 computer readable program code means in said computer program product comprising computer
- 4 readable program code means for causing a computer to effect the functions and of all the
- 5 limitations elements of claim 10.
- 6 19. (Currently amended) An article of manufacture comprising a computer usable medium
- 7 having computer readable program code means embodied therein for causing transfer of
- 8 interrupts, the computer readable program code means in said article of manufacture comprising
- 9 computer readable program code means for causing a computer to effect the steps and all the
- 10 limitations of the steps of claim 11.
- 11 20. (Currently amended) A program storage device readable by a machine, tangibly embodying a
- 12 program of instructions executable by the machine to perform method steps for transferring
- interrupts, said method steps comprising the steps and all the limitations of the steps of claim 11
- 14 21. (New) An apparatus as claimed in claim 1, wherein:
- the preset condition comprises at least one of:
- 16 a determination that the buffer is full.
- a determination that at least a predetermined plurality of indications is stored in the buffer
- 18 and that a predetermined period has elapsed, and
- determination that at least one indication is stored in the buffer and that a predetermined :
- 20 period has elapsed;
- 21 the header portion comprises a count indicative of the number of indications included in the
- 22 payload portion;
- 23 the header portion comprises a time of day stamp; and

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- the buffer comprises a first in first out memory buffer.
- 2 22. (New) An apparatus as claimed in claim 21, further comprising:
- 3 a host processing system having a memory, a data communications interface for communicating
- 4 data between the host computer system and a data communications network, forming a data
- 5 processing system for controlling flow of interrupts from the data communication interface to the
- 6 memory of the host computer system.

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